

Title (en)

Composite RF attenuator for a medical lead

Title (de)

Verbundstoff-RF-Abschwächer für medizinische Elektrode

Title (fr)

Atténuateur RF composite pour une dérivation médicale

Publication

EP 2594314 A1 20130522 (EN)

Application

EP 12158261 A 20120306

Priority

- US 201113299278 A 20111117
- US 201213401608 A 20120221

Abstract (en)

A composite RF current attenuator for a medical lead includes a conductor having a distal electrode contactable to biological cells, a bandstop filter in series with the lead conductor for attenuating RF currents flow through the lead conductor at a selected center frequency or across a range of frequencies about the center frequency, and a lowpass filter in series with the bandstop filter and forming a portion of the lead conductor. The bandstop filter has a capacitance in parallel with a first inductance. In a preferred form, the lowpass filter includes a second inductance in series with the bandstop filter, wherein the values of capacitance and inductances for the composite RF current attenuator are selected such that it attenuates MRI-induced RF current flow in an MRI environment.

IPC 8 full level

A61N 1/16 (2006.01); **A61N 1/05** (2006.01); **A61N 1/08** (2006.01); **A61N 1/37** (2006.01)

CPC (source: EP)

A61N 1/056 (2013.01); **A61N 1/086** (2017.07)

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Designated contracting state (EPC)

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